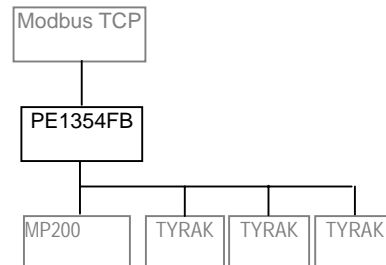


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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**1. General**



PE1354FB is a protocol converter designed to read data traffic on MasterFieldBus communication and make the data available on Modbus TCP. PE1354FB can also act as one Slaves on the MasterFieldBus. This give possibility to transfer data between Modbus TCP and MP200. It also give possibility to read special data from MP200.

The unit is enclosed in a metal box with connection terminal for Power supply. Connector type 9 pins Dsub for Service port RS232.

Modbus TCP connection is made with RJ45 Ethernet connector.

**2. Technical description**

**2.1 Dimension and mounting**

PE1354FB is mounted in a cubicle or in a separate enclosure together with 24V DC supply.

To obtain the best immunity to electric noise the PE1354FB must be electrically connected to cubicle through 4 M5 screws in each corner.

- Size: 240 x 145 mm (w x h)
- Required mounting deep: 35mm
- Mounting screws: 4 x M5
- Mounting holes position: 220 x 135mm(w x h)

**2.2 Technical data**

- Power supply 24V DC (12-30V DC)
- Current consumption 170mA at 24V
- Enclosure class IP00
- Operation 5..+40 °C., Storage -40..+70 °C.

**Communication MasterFieldBus**

RS-485  
 Transmission speeds: Only High speed 2mbit/S  
 Max cable length :short dist. <=25m  
 Cable type FLFR 3x2x0.34  
 PE1354FB are listen to data traffic to from TYRAK or SAMI on the MasterFieldbus.  
 PE1354FB can also act as one active Slave on MFB.

**Communication to Modbus TCP**

The AnyBus S ModbusTCP card is connected to Modbus TCP with RJ45 Ethernet connector  
 Modscan32 Program  
 Modscan32 program from WinTECH has been used when testing the module.  
 Use Modbus Point type= 03: Holding register  
 Connect using Remote TCP/IP Server.  
 IP address default in module 192.168.1.20 (Change if needed)

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**2.3 Status indications on PE1354FB board**

A red Led is indication Internal Program run error.

The communication status is indicated on a two-segment display, which will indicate the actual status and error.

Digit 1	Digit 2	Description
P	1-7	Initiation phases, (The Red Led is flashing during initiation.) 1=Waiting for AnyBus S card to startup 2=Soft Reset of AnyBys S card 3=Waiting for AnuBus S reset 4=Hardware check of AnyBus S card 5=StartInit Order to AnyBus S card 6=Initiation of Buffer size of AnyBus S card 7=Saving of Net configuration 8=Reading Net configuration 9=End of initiation of AnyBus S card
L	0 1 2 3 4 5 6 7 8 9 A B	Display of IP addr, Subnet mask and Gateway addr This sequence will be displayed at startup of PE1354FB Indication of first byte of Actual IP Hex code eg 192, Hex C0 Indication of second byte of Actual IP Hex code eg 168, Hex A8 Indication of third byte of Actual IP Hex code eg 1, Hex 01 Indication of fourth byte of Actual IP Hex code eg 20, Hex 14 Indication of first byte of Actual Subnet maskHex code eg 255, Hex FF Indication of second byte of Actual Subnet maskHex code eg 255, Hex FF Indication of third byte of Actual Subnet maskHex code eg 255, Hex FF Indication of forth byte of Actual Subnet maskHex code eg 0, Hex 00 Indication of first byte of Actual Gateway addr Hex code eg 0 Hex 00 Indication of second byte of Actual Gateway addr Hex code eg 0 Hex 00 Indication of third byte of Actual Gateway addr Hex code eg 0 Hex 00 Indication of fourth byte of Actual Gateway addr Hex code eg 0 Hex 00
X	Y	X is MFB node 0-F Y=0 No TCP IP connection Y=1 No communication on MasterFieldBus Y=2 No data detected from MFB Slave, No TCP IP connection Y=3 No data detected from MFB Slave Y=4 No data detected from MFB Master, No TCP IP connection Y=5 No data detected from MFB Master Y=6 MFB ok but no TCP IP connection Y=7 Normal data detect from Master and Slave Y= - Active slave normal communication
Y	Z	11-13 Error at software reset of AnyBus-S module 21-23 Error at Hardware testt of AnyBus-S module 31-33 Error at Start Init of AnyBus S 41-43 Error at Save in Flash of AnuBus-S module 51-53 Error at Enable Web config command 61-63 Error when Reading Flash of AnyBus-S module 71-73 Error at Set Net configurationAnyBus 81-83 Error when reading net configuration from AnyBus-S module 91-93 Error at Any Init command 94-96 Error at End Init command to AnyBus-S module

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**2.4 Dip switch setup**

S1	Normal	FUNCTION	
		S1.7=OFF	S1.7=ON
1	OFF	Node addr for Active slave	INCR
2	OFF	Node addr for Active slave	DECR
3	OFF	Node addr for Active slave	FAST
4	OFF	Node addr for Active slave	STEP
5	OFF	ON= Active slave selected	
6	OFF	ON = SWAP high and Low byte	
7	OFF	Set On for setting of IP address	
8	OFF	OFF=Enable Synch signal RS232, ON= Enable Service program	

**2.4.1 Active node**

Use S1.1 to S1.4 to define the address 0-15 for active slave.  
 Set S1.5 to On for selecting the active slave function.  
 PE1354FB can act as one active slaves on MasterFieldBus, select by Dip switch.  
 This function needs programming in MP200 system. One new TYRAK slave has to be created.  
 Use the element COM-CVI1 and COM-CVO1 to transfer data to/from Modbus TCP IP

**2.4.2 Swapping high and low data byte**

With this DIP ON the Integer data word high byte is swapped with the low byte before reading and writing to ModBus TCP side.

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**2.4.3 Setting of IP address,Mask and Gateway using Service program**

**Setting IP address and Status signal mapping from Service program on a PC**

SW1.8 must be set to ON to enable the service communication. Connect a Straight RS232 cable from PC to PE1354B service connector DSUB 9 pole.  
 Start PE1354B\_Service program and select COM port number. Click on button “Port is Closed”.  
 Now actual IP settings and actual Status signal mapping are shown and possible to change. After change click on “Set IP Config”  
 Status signal mapping can be changed to different locations.  
 Change only if you are sure that the Slave are not in use which you can see on the Gray Indication (No data)on the Actual Slave addr.

The screenshot shows the PE1354FB Service V3 software interface. At the top, it displays 'Settings' with options for COM1-4, Decimal/Hex, and SwapBytes. The 'Version of PE1354B' is set to 4, and the date is 2010-04-23 07:58:06. A 'Port is opened' button is visible. Below this, there are sections for 'Data from Master' and 'Data from Slave' with various registers (PBORD, I4ORD, RORD, I4ORD2H, I4ORD2L) and their values. The 'TCP IP address' section shows IP: 192.168.1.20 and Mask: 255.255.255.0. The 'DIP SW Settings' section includes options like '8 On=Service, Off=Synch' (ON), '7 On=Setting of IP' (OFF), '6 On=Swapping bytes' (OFF), '5 On=Use active slave' (ON), '4 Active slave 0-15' (OFF), '3 Active slave 0-15' (OFF), '2 Active slave 0-15' (ON), and '1 Active slave 0-15' (ON). The 'Status Mapping' section lists slave addresses from 40041 to 40641, with 40641 selected as the default. At the bottom, there is a 'Counters' table and a 'Service communication' section showing Rx/Tx data and a 'Number of TimeOuts' of 8.

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**2.4.4 Setting of IP address,Mask and Gateway using DIP switches**

It is recommended to disconnect the MasterFieldBus when setting the IP address.

Set Dip S1.7 and turn power on.

Wait until Display shows L0 and then Display Actual value for L0

Dip switch S1.1 is used for Increasing value each time dip is changed

Dip switch S1.2 is used for decreasing value each time dip is changed

Dip switch S1.3 to Off will increase value by 1 and On incr. Value by 10.

Dip switch S1.4 will step to next value Lx each time it is changed.

This is an example how to set the

IP addr 192.168. 1.20 (Hex C0 A8 01 14)

Mask 255.255.255.0 (Hex FF FF FF 00)

Gateway 0 . 0 . 0. 0 (Hex 00 00 00 00)

Change S1.1 or S1.2 to increase or decreas value to C0

Change S1.4 to tep to L1 (Second byte in IP addr.)

Change S1.1 or S1.2 to increase or decreas value to A8

Change S1.4 to tep to L2 (Third byte in IP addr.)

Change S1.1 or S1.2 to increase or decreas value to 1

Change S1.4 to tep to L3 (Fourth byte in IP addr.)

Change S1.1 or S1.2 to increase or decreas value to 14

Change S1.4 to tep to L4 (First byte in Mask)

Change S1.1 or S1.2 to increase or decreas value to FF

Change S1.4 to tep to L5 (Second byte in Mask)

Change S1.1 or S1.2 to increase or decreas value to FF

Change S1.4 to tep to L6 (Third byte in Mask)

Change S1.1 or S1.2 to increase or decreas value to FF

Change S1.4 to tep to L7 (Fourth byte in Mask)

Change S1.1 or S1.2 to increase or decreas value to 00

Change S1.4 to tep to L8 (Fourth byte in Mask)

Change S1.1 or S1.2 to increase or decreas value to 00

Change S1.4 to tep to L8 (First byte in Gateway)

Change S1.1 or S1.2 to increase or decreas value to 00

Change S1.4 to tep to L9 (Second byte in Gateway)

Change S1.1 or S1.2 to increase or decreas value to 00

Change S1.4 to tep to LA (Third byte in Gateway)

Change S1.1 or S1.2 to increase or decreas value to 00

Change S1.4 to tep to LB (Fourth byte in Gateway)

Change S1.1 or S1.2 to increase or decreas value to 00

Set S1.7 to off

Set also S1.1 to S1.4 back to Active slave settings.

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**2.5 Communication layout**

**Signal mapping when Reading data traffic on DDCS bus**

**Note!** Before Modbus TCP can get values the MasterFieldBus communication must be running.

**MFB Node 0 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from SLAVE to TCP IP	Word addr 40001
PBIND2	Base DI 17-24		-32768..32767		Word addr 40002
PBIND3	Base DI 9-16		-32768..32767		Word addr 40003
PBIND4	Base DI 1-8		-32768..32767		Word addr 40004
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40005
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40006
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40007
RIND1	Exp DI 1-8		-32768..32767		Word addr 40008
RIND2	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40009
RIND3			-32768..32767		Word addr 40010
RIND4			-32768..32767		Word addr 40011
RIND5			-32768..32767		Word addr 40012
RIND6			-32768..32767		Word addr 40013
RIND7			-32768..32767		Word addr 40014
RIND8			-32768..32767		Word addr 40015
RIND9			-32768..32767		Word addr 40016
SPARE			-32768..32767		Word addr 40017
SPARE		-32768..32767		Word addr 40018	
SPARE		-32768..32767		Word addr 40019	
NOT USED		-32768..32767		Word addr 40020	
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40021
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40022
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40023
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40024
RORD1		Disposition field3	-32768..32767		Word addr 40025
RORD2		Value field 1	-32768..32767		Word addr 40026
RORD3			-32768..32767		Word addr 40027
RORD4		Value field 2	-32768..32767		Word addr 40028
RORD5			-32768..32767		Word addr 40029
RORD6		Value field 3	-32768..32767		Word addr 40030
RORD7			-32768..32767		Word addr 40031
RORD8		Pulse time	-32768..32767		Word addr 40032
RORD9		Disposition field4	-32768..32767		Word addr 40033
RORD10		Disposition field5	-32768..32767		Word addr 40034
RORD11		Disposition field6	-32768..32767		Word addr 40035
RORD12		Value field 4	-32768..32767		Word addr 40036
RORD13			-32768..32767		Word addr 40037
RORD14		Value field 5	-32768..32767		Word addr 40038
I4ORD2 HI			-32768..32767		Word addr 40039
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40040

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 1 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus COM-CV11	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				—————▶	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40041
PBIND2	Base DI 17-24		-32768..32767		Word addr 40042
PBIND3	Base DI 9-16		-32768..32767		Word addr 40043
PBIND4	Base DI 1-8		-32768..32767		Word addr 40044
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40045
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40046
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40047
RIND1	Exp DI 1-8		-32768..32767		Word addr 40048
RIND2	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40049
RIND3			-32768..32767		Word addr 40050
RIND4			-32768..32767		Word addr 40051
RIND5			-32768..32767		Word addr 40052
RIND6			-32768..32767		Word addr 40053
RIND7			-32768..32767		Word addr 40054
RIND8			-32768..32767		Word addr 40055
RIND9			-32768..32767		Word addr 40056
SPARE			-32768..32767		Word addr 40057
SPARE			-32768..32767		Word addr 40058
SPARE		-32768..32767		Word addr 40059	
NOT USED		-32768..32767		Word addr 40060	
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40061
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40062
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40063
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40064
RORD1		Disposition field3	-32768..32767		Word addr 40065
RORD2		Value field 1	-32768..32767		Word addr 40066
RORD3			-32768..32767		Word addr 40067
RORD4		Value field 2	-32768..32767		Word addr 40068
RORD5			-32768..32767		Word addr 40069
RORD6		Value field 3	-32768..32767		Word addr 40070
RORD7			-32768..32767		Word addr 40071
RORD8		Pulse time	-32768..32767		Word addr 40072
RORD9		Disposition field4	-32768..32767		Word addr 40073
RORD10		Disposition field5	-32768..32767		Word addr 40074
RORD11		Disposition field6	-32768..32767		Word addr 40075
RORD12		Value field 4	-32768..32767		Word addr 40076
RORD13			-32768..32767		Word addr 40077
RORD14		Value field 5	-32768..32767		Word addr 40078
I4ORD2 HI		-32768..32767		Word addr 40079	
I4ORD2 LO	Value field 6	-32768..32767		Word addr 40080	

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 2 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40081
PBIND2	Base DI 17-24		-32768..32767		Word addr 40082
PBIND3	Base DI 9-16		-32768..32767		Word addr 40083
PBIND4	Base DI 1-8		-32768..32767		Word addr 40084
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40085
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40086
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40087
RIND1	Exp DI 1-8		-32768..32767		Word addr 40088
RIND2			-32768..32767		Word addr 40089
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40090
RIND4			-32768..32767		Word addr 40091
RIND5			-32768..32767		Word addr 40092
RIND6			-32768..32767		Word addr 40093
RIND7			-32768..32767		Word addr 40094
RIND8			-32768..32767		Word addr 40095
RIND9			-32768..32767		Word addr 40096
SPARE			-32768..32767		Word addr 40097
SPARE		-32768..32767		Word addr 40098	
SPARE		-32768..32767		Word addr 40099	
NOT USED			-32768..32767		Word addr 40100
			-32768..32767		
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40101
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40102
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40103
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40104
RORD1		Disposition field3	-32768..32767		Word addr 40105
RORD2		Value field 1	-32768..32767		Word addr 40106
RORD3			-32768..32767		Word addr 40107
RORD4		Value field 2	-32768..32767		Word addr 40108
RORD5			-32768..32767		Word addr 40109
RORD6		Value field 3	-32768..32767		Word addr 40110
RORD7			-32768..32767		Word addr 40111
RORD8		Pulse time	-32768..32767		Word addr 40112
RORD9		Disposition field4	-32768..32767		Word addr 40113
RORD10		Disposition field5	-32768..32767		Word addr 40114
RORD11		Disposition field6	-32768..32767		Word addr 40115
RORD12		Value field 4	-32768..32767		Word addr 40116
RORD13			-32768..32767		Word addr 40117
RORD14		Value field 5	-32768..32767		Word addr 40118
I4ORD2 HI			-32768..32767		Word addr 40119
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40120



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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 3 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40121
PBIND2	Base DI 17-24		-32768..32767		Word addr 40122
PBIND3	Base DI 9-16		-32768..32767		Word addr 40123
PBIND4	Base DI 1-8		-32768..32767		Word addr 40124
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40125
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40126
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40127
RIND1	Exp DI 1-8		-32768..32767		Word addr 40128
RIND2			-32768..32767		Word addr 40129
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40130
RIND4			-32768..32767		Word addr 40131
RIND5			-32768..32767		Word addr 40132
RIND6			-32768..32767		Word addr 40133
RIND7			-32768..32767		Word addr 40134
RIND8			-32768..32767		Word addr 40135
RIND9			-32768..32767		Word addr 40136
SPARE			-32768..32767		Word addr 40137
SPARE			-32768..32767		Word addr 40138
SPARE			-32768..32767		Word addr 40139
NOT USED			-32768..32767		Word addr 40140
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40141
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40142
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40143
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40144
RORD1		Disposition field3	-32768..32767		Word addr 40145
RORD2		Value field 1	-32768..32767		Word addr 40146
RORD3			-32768..32767		Word addr 40147
RORD4		Value field 2	-32768..32767		Word addr 40148
RORD5			-32768..32767		Word addr 40149
RORD6		Value field 3	-32768..32767		Word addr 40150
RORD7			-32768..32767		Word addr 40151
RORD8		Pulse time	-32768..32767		Word addr 40152
RORD9		Disposition field4	-32768..32767		Word addr 40153
RORD10		Disposition field5	-32768..32767		Word addr 40154
RORD11		Disposition field6	-32768..32767		Word addr 40155
RORD12		Value field 4	-32768..32767		Word addr 40156
RORD13			-32768..32767		Word addr 40157
RORD14		Value field 5	-32768..32767		Word addr 40158
I4ORD2 HI			-32768..32767		Word addr 40159
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40160

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 4 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40161
PBIND2	Base DI 17-24		-32768..32767		Word addr 40162
PBIND3	Base DI 9-16		-32768..32767		Word addr 40163
PBIND4	Base DI 1-8		-32768..32767		Word addr 40164
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40165
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40166
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40167
RIND1	Exp DI 1-8		-32768..32767		Word addr 40168
RIND2			-32768..32767		Word addr 40169
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40170
RIND4			-32768..32767		Word addr 40171
RIND5			-32768..32767		Word addr 40172
RIND6			-32768..32767		Word addr 40173
RIND7			-32768..32767		Word addr 40174
RIND8			-32768..32767		Word addr 40175
RIND9			-32768..32767		Word addr 40176
SPARE			-32768..32767		Word addr 40177
SPARE			-32768..32767		Word addr 40178
SPARE		-32768..32767		Word addr 40179	
NOT USED			-32768..32767		Word addr 40180
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40181
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40182
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40183
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40184
RORD1		Disposition field3	-32768..32767		Word addr 40185
RORD2		Value field 1	-32768..32767		Word addr 40186
RORD3			-32768..32767		Word addr 40187
RORD4		Value field 2	-32768..32767		Word addr 40188
RORD5			-32768..32767		Word addr 40189
RORD6		Value field 3	-32768..32767		Word addr 40190
RORD7			-32768..32767		Word addr 40191
RORD8		Pulse time	-32768..32767		Word addr 40192
RORD9		Disposition field4	-32768..32767		Word addr 40193
RORD10		Disposition field5	-32768..32767		Word addr 40194
RORD11		Disposition field6	-32768..32767		Word addr 40195
RORD12		Value field 4	-32768..32767		Word addr 40196
RORD13			-32768..32767		Word addr 40197
RORD14		Value field 5	-32768..32767		Word addr 40198
I4ORD2 HI			-32768..32767		Word addr 40199
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40200

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 5 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40201
PBIND2	Base DI 17-24		-32768..32767		Word addr 40202
PBIND3	Base DI 9-16		-32768..32767		Word addr 40203
PBIND4	Base DI 1-8		-32768..32767		Word addr 40204
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40205
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40206
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40207
RIND1	Exp DI 1-8		-32768..32767		Word addr 40208
RIND2			-32768..32767		Word addr 40209
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40210
RIND4			-32768..32767		Word addr 40211
RIND5			-32768..32767		Word addr 40212
RIND6			-32768..32767		Word addr 40213
RIND7			-32768..32767		Word addr 40214
RIND8			-32768..32767		Word addr 40215
RIND9			-32768..32767		Word addr 40216
SPARE			-32768..32767		Word addr 40217
SPARE		-32768..32767		Word addr 40218	
SPARE		-32768..32767		Word addr 40219	
NOT USED			-32768..32767		Word addr 40220
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40221
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40222
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40223
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40224
RORD1		Disposition field3	-32768..32767		Word addr 40225
RORD2		Value field 1	-32768..32767		Word addr 40226
RORD3			-32768..32767		Word addr 40227
RORD4		Value field 2	-32768..32767		Word addr 40228
RORD5			-32768..32767		Word addr 40229
RORD6		Value field 3	-32768..32767		Word addr 40230
RORD7			-32768..32767		Word addr 40231
RORD8		Pulse time	-32768..32767		Word addr 40232
RORD9		Disposition field4	-32768..32767		Word addr 40233
RORD10		Disposition field5	-32768..32767		Word addr 40234
RORD11		Disposition field6	-32768..32767		Word addr 40235
RORD12		Value field 4	-32768..32767		Word addr 40236
RORD13			-32768..32767		Word addr 40237
RORD14		Value field 5	-32768..32767		Word addr 40238
I4ORD2 HI			-32768..32767		Word addr 40239
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40240

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 6 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40241
PBIND2	Base DI 17-24		-32768..32767		Word addr 40242
PBIND3	Base DI 9-16		-32768..32767		Word addr 40243
PBIND4	Base DI 1-8		-32768..32767		Word addr 40244
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40245
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40246
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40247
RIND1	Exp DI 1-8		-32768..32767		Word addr 40248
RIND2			-32768..32767		Word addr 40249
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40250
RIND4			-32768..32767		Word addr 40251
RIND5			-32768..32767		Word addr 40252
RIND6			-32768..32767		Word addr 40253
RIND7			-32768..32767		Word addr 40254
RIND8			-32768..32767		Word addr 40255
RIND9			-32768..32767		Word addr 40256
SPARE			-32768..32767		Word addr 40257
SPARE		-32768..32767		Word addr 40258	
SPARE		-32768..32767		Word addr 40259	
NOT USED			-32768..32767		Word addr 40260
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40261
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40262
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40263
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40264
RORD1		Disposition field3	-32768..32767		Word addr 40265
RORD2		Value field 1	-32768..32767		Word addr 40266
RORD3			-32768..32767		Word addr 40267
RORD4		Value field 2	-32768..32767		Word addr 40268
RORD5			-32768..32767		Word addr 40269
RORD6		Value field 3	-32768..32767		Word addr 40270
RORD7			-32768..32767		Word addr 40271
RORD8		Pulse time	-32768..32767		Word addr 40272
RORD9		Disposition field4	-32768..32767		Word addr 40273
RORD10		Disposition field5	-32768..32767		Word addr 40274
RORD11		Disposition field6	-32768..32767		Word addr 40275
RORD12		Value field 4	-32768..32767		Word addr 40276
RORD13			-32768..32767		Word addr 40277
RORD14		Value field 5	-32768..32767		Word addr 40278
I4ORD2 HI			-32768..32767		Word addr 40279
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40280

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 7 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40281
PBIND2	Base DI 17-24		-32768..32767		Word addr 40282
PBIND3	Base DI 9-16		-32768..32767		Word addr 40283
PBIND4	Base DI 1-8		-32768..32767		Word addr 40284
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40285
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40286
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40287
RIND1	Exp DI 1-8		-32768..32767		Word addr 40288
RIND2			-32768..32767		Word addr 40289
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40290
RIND4			-32768..32767		Word addr 40291
RIND5			-32768..32767		Word addr 40292
RIND6			-32768..32767		Word addr 40293
RIND7			-32768..32767		Word addr 40294
RIND8			-32768..32767		Word addr 40295
RIND9			-32768..32767		Word addr 40296
SPARE			-32768..32767		Word addr 40297
SPARE		-32768..32767		Word addr 40298	
SPARE		-32768..32767		Word addr 40299	
NOT USED			-32768..32767		Word addr 40300
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40301
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40302
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40303
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40304
RORD1		Disposition field3	-32768..32767		Word addr 40305
RORD2		Value field 1	-32768..32767		Word addr 40306
RORD3			-32768..32767		Word addr 40307
RORD4		Value field 2	-32768..32767		Word addr 40308
RORD5			-32768..32767		Word addr 40309
RORD6		Value field 3	-32768..32767		Word addr 40310
RORD7			-32768..32767		Word addr 40311
RORD8		Pulse time	-32768..32767		Word addr 40312
RORD9		Disposition field4	-32768..32767		Word addr 40313
RORD10		Disposition field5	-32768..32767		Word addr 40314
RORD11		Disposition field6	-32768..32767		Word addr 40315
RORD12		Value field 4	-32768..32767		Word addr 40316
RORD13			-32768..32767		Word addr 40317
RORD14		Value field 5	-32768..32767		Word addr 40318
I4ORD2 HI			-32768..32767		Word addr 40319
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40320

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 8 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40321
PBIND2	Base DI 17-24		-32768..32767		Word addr 40322
PBIND3	Base DI 9-16		-32768..32767		Word addr 40323
PBIND4	Base DI 1-8		-32768..32767		Word addr 40324
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40325
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40326
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40327
RIND1	Exp DI 1-8		-32768..32767		Word addr 40328
RIND2			-32768..32767		Word addr 40329
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40330
RIND4			-32768..32767		Word addr 40331
RIND5			-32768..32767		Word addr 40332
RIND6			-32768..32767		Word addr 40333
RIND7			-32768..32767		Word addr 40334
RIND8			-32768..32767		Word addr 40335
RIND9			-32768..32767		Word addr 40336
SPARE			-32768..32767		Word addr 40337
SPARE		-32768..32767		Word addr 40338	
SPARE		-32768..32767		Word addr 40339	
NOT USED			-32768..32767		Word addr 40340
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40341
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40342
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40343
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40344
RORD1		Disposition field3	-32768..32767		Word addr 40345
RORD2		Value field 1	-32768..32767		Word addr 40346
RORD3			-32768..32767		Word addr 40347
RORD4		Value field 2	-32768..32767		Word addr 40348
RORD5			-32768..32767		Word addr 40349
RORD6		Value field 3	-32768..32767		Word addr 40350
RORD7			-32768..32767		Word addr 40351
RORD8		Pulse time	-32768..32767		Word addr 40352
RORD9		Disposition field4	-32768..32767		Word addr 40353
RORD10		Disposition field5	-32768..32767		Word addr 40354
RORD11		Disposition field6	-32768..32767		Word addr 40355
RORD12		Value field 4	-32768..32767		Word addr 40356
RORD13			-32768..32767		Word addr 40357
RORD14		Value field 5	-32768..32767		Word addr 40358
I4ORD2 HI			-32768..32767		Word addr 40359
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40360

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 9 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40361
PBIND2	Base DI 17-24		-32768..32767		Word addr 40362
PBIND3	Base DI 9-16		-32768..32767		Word addr 40363
PBIND4	Base DI 1-8		-32768..32767		Word addr 40364
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40365
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40366
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40367
RIND1	Exp DI 1-8		-32768..32767		Word addr 40368
RIND2			-32768..32767		Word addr 40369
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40370
RIND4			-32768..32767		Word addr 40371
RIND5			-32768..32767		Word addr 40372
RIND6			-32768..32767		Word addr 40373
RIND7			-32768..32767		Word addr 40374
RIND8			-32768..32767		Word addr 40375
RIND9			-32768..32767		Word addr 40376
SPARE			-32768..32767		Word addr 40377
SPARE			-32768..32767		Word addr 40378
SPARE		-32768..32767		Word addr 40379	
NOT USED			-32768..32767		Word addr 40380
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40381
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40382
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40383
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40384
RORD1		Disposition field3	-32768..32767		Word addr 40385
RORD2		Value field 1	-32768..32767		Word addr 40386
RORD3			-32768..32767		Word addr 40387
RORD4		Value field 2	-32768..32767		Word addr 40388
RORD5			-32768..32767		Word addr 40389
RORD6		Value field 3	-32768..32767		Word addr 40390
RORD7			-32768..32767		Word addr 40391
RORD8		Pulse time	-32768..32767		Word addr 40392
RORD9		Disposition field4	-32768..32767		Word addr 40393
RORD10		Disposition field5	-32768..32767		Word addr 40394
RORD11		Disposition field6	-32768..32767		Word addr 40395
RORD12		Value field 4	-32768..32767		Word addr 40396
RORD13			-32768..32767		Word addr 40397
RORD14		Value field 5	-32768..32767		Word addr 40398
I4ORD2 HI			-32768..32767		Word addr 40399
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40400

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 10 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40401
PBIND2	Base DI 17-24		-32768..32767		Word addr 40402
PBIND3	Base DI 9-16		-32768..32767		Word addr 40403
PBIND4	Base DI 1-8		-32768..32767		Word addr 40404
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40405
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40406
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40407
RIND1	Exp DI 1-8		-32768..32767		Word addr 40408
RIND2			-32768..32767		Word addr 40409
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40410
RIND4			-32768..32767		Word addr 40411
RIND5			-32768..32767		Word addr 40412
RIND6			-32768..32767		Word addr 40413
RIND7			-32768..32767		Word addr 40414
RIND8			-32768..32767		Word addr 40415
RIND9			-32768..32767		Word addr 40416
SPARE			-32768..32767		Word addr 40417
SPARE		-32768..32767		Word addr 40418	
SPARE		-32768..32767		Word addr 40419	
NOT USED			-32768..32767		Word addr 40420
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40421
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40422
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40423
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40424
RORD1		Disposition field3	-32768..32767		Word addr 40425
RORD2		Value field 1	-32768..32767		Word addr 40426
RORD3			-32768..32767		Word addr 40427
RORD4		Value field 2	-32768..32767		Word addr 40428
RORD5			-32768..32767		Word addr 40429
RORD6		Value field 3	-32768..32767		Word addr 40430
RORD7			-32768..32767		Word addr 40431
RORD8		Pulse time	-32768..32767		Word addr 40432
RORD9		Disposition field4	-32768..32767		Word addr 40433
RORD10		Disposition field5	-32768..32767		Word addr 40434
RORD11		Disposition field6	-32768..32767		Word addr 40435
RORD12		Value field 4	-32768..32767		Word addr 40436
RORD13			-32768..32767		Word addr 40437
RORD14		Value field 5	-32768..32767		Word addr 40438
I4ORD2 HI			-32768..32767		Word addr 40439
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40440



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### Read MasterFieldbus – Modbus TCP converter PE1354FB

#### MFB Node 11 Signal list MasterFieldBus – Modbus TCP

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40441
PBIND2	Base DI 17-24		-32768..32767		Word addr 40442
PBIND3	Base DI 9-16		-32768..32767		Word addr 40443
PBIND4	Base DI 1-8		-32768..32767		Word addr 40444
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40445
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40446
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40447
RIND1	Exp DI 1-8		-32768..32767		Word addr 40448
RIND2			-32768..32767		Word addr 40449
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40450
RIND4			-32768..32767		Word addr 40451
RIND5			-32768..32767		Word addr 40452
RIND6			-32768..32767		Word addr 40453
RIND7			-32768..32767		Word addr 40454
RIND8			-32768..32767		Word addr 40455
RIND9			-32768..32767		Word addr 40456
SPARE			-32768..32767		Word addr 40457
SPARE		-32768..32767		Word addr 40458	
SPARE		-32768..32767		Word addr 40459	
NOT USED			-32768..32767		Word addr 40460
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40461
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40462
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40463
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40464
RORD1		Disposition field3	-32768..32767		Word addr 40465
RORD2		Value field 1	-32768..32767		Word addr 40466
RORD3			-32768..32767		Word addr 40467
RORD4		Value field 2	-32768..32767		Word addr 40468
RORD5			-32768..32767		Word addr 40469
RORD6		Value field 3	-32768..32767		Word addr 40470
RORD7			-32768..32767		Word addr 40471
RORD8		Pulse time	-32768..32767		Word addr 40472
RORD9		Disposition field4	-32768..32767		Word addr 40473
RORD10		Disposition field5	-32768..32767		Word addr 40474
RORD11		Disposition field6	-32768..32767		Word addr 40475
RORD12		Value field 4	-32768..32767		Word addr 40476
RORD13			-32768..32767		Word addr 40477
RORD14		Value field 5	-32768..32767		Word addr 40478
I4ORD2 HI			-32768..32767		Word addr 40479
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40480

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 12 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40481
PBIND2	Base DI 17-24		-32768..32767		Word addr 40482
PBIND3	Base DI 9-16		-32768..32767		Word addr 40483
PBIND4	Base DI 1-8		-32768..32767		Word addr 40484
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40485
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40486
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40487
RIND1	Exp DI 1-8		-32768..32767		Word addr 40488
RIND2			-32768..32767		Word addr 40489
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40490
RIND4			-32768..32767		Word addr 40491
RIND5			-32768..32767		Word addr 40492
RIND6			-32768..32767		Word addr 40493
RIND7			-32768..32767		Word addr 40494
RIND8			-32768..32767		Word addr 40495
RIND9			-32768..32767		Word addr 40496
SPARE			-32768..32767		Word addr 40497
SPARE			-32768..32767		Word addr 40498
SPARE		-32768..32767		Word addr 40499	
NOT USED			-32768..32767		Word addr 40500
			-32768..32767		
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40501
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40502
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40503
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40504
RORD1		Disposition field3	-32768..32767		Word addr 40505
RORD2		Value field 1	-32768..32767		Word addr 40506
RORD3			-32768..32767		Word addr 40507
RORD4		Value field 2	-32768..32767		Word addr 40508
RORD5			-32768..32767		Word addr 40509
RORD6		Value field 3	-32768..32767		Word addr 40510
RORD7			-32768..32767		Word addr 40511
RORD8		Pulse time	-32768..32767		Word addr 40512
RORD9		Disposition field4	-32768..32767		Word addr 40513
RORD10		Disposition field5	-32768..32767		Word addr 40514
RORD11		Disposition field6	-32768..32767		Word addr 40515
RORD12		Value field 4	-32768..32767		Word addr 40516
RORD13			-32768..32767		Word addr 40517
RORD14		Value field 5	-32768..32767		Word addr 40518
I4ORD2 HI			-32768..32767		Word addr 40519
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40520

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 13 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40521
PBIND2	Base DI 17-24		-32768..32767		Word addr 40522
PBIND3	Base DI 9-16		-32768..32767		Word addr 40523
PBIND4	Base DI 1-8		-32768..32767		Word addr 40524
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40525
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40526
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40527
RIND1	Exp DI 1-8		-32768..32767		Word addr 40528
RIND2			-32768..32767		Word addr 40529
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40530
RIND4			-32768..32767		Word addr 40531
RIND5			-32768..32767		Word addr 40532
RIND6			-32768..32767		Word addr 40533
RIND7			-32768..32767		Word addr 40534
RIND8			-32768..32767		Word addr 40535
RIND9			-32768..32767		Word addr 40536
SPARE			-32768..32767		Word addr 40537
SPARE		-32768..32767		Word addr 40538	
SPARE		-32768..32767		Word addr 40539	
NOT USED			-32768..32767		Word addr 40540
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40541
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40542
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40543
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40544
RORD1		Disposition field3	-32768..32767		Word addr 40545
RORD2		Value field 1	-32768..32767		Word addr 40546
RORD3			-32768..32767		Word addr 40547
RORD4		Value field 2	-32768..32767		Word addr 40548
RORD5			-32768..32767		Word addr 40549
RORD6		Value field 3	-32768..32767		Word addr 40550
RORD7			-32768..32767		Word addr 40551
RORD8		Pulse time	-32768..32767		Word addr 40552
RORD9		Disposition field4	-32768..32767		Word addr 40553
RORD10		Disposition field5	-32768..32767		Word addr 40554
RORD11		Disposition field6	-32768..32767		Word addr 40555
RORD12		Value field 4	-32768..32767		Word addr 40556
RORD13			-32768..32767		Word addr 40557
RORD14		Value field 5	-32768..32767		Word addr 40558
I4ORD2 HI			-32768..32767		Word addr 40559
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40560

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 14 Signal list MasterFieldBus – Modbus TCP**

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40561
PBIND2	Base DI 17-24		-32768..32767		Word addr 40562
PBIND3	Base DI 9-16		-32768..32767		Word addr 40563
PBIND4	Base DI 1-8		-32768..32767		Word addr 40564
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40565
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40566
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40567
RIND1	Exp DI 1-8		-32768..32767		Word addr 40568
RIND2			-32768..32767		Word addr 40569
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40570
RIND4			-32768..32767		Word addr 40571
RIND5			-32768..32767		Word addr 40572
RIND6			-32768..32767		Word addr 40573
RIND7			-32768..32767		Word addr 40574
RIND8			-32768..32767		Word addr 40575
RIND9			-32768..32767		Word addr 40576
SPARE			-32768..32767		Word addr 40577
SPARE		-32768..32767		Word addr 40578	
SPARE		-32768..32767		Word addr 40579	
NOT USED			-32768..32767		Word addr 40580
PBOARD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40581
PBOARD2	Base DO 21-32	Indications	-32768..32767		Word addr 40582
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40583
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40584
RORD1		Disposition field3	-32768..32767		Word addr 40585
RORD2		Value field 1	-32768..32767		Word addr 40586
RORD3			-32768..32767		Word addr 40587
RORD4		Value field 2	-32768..32767		Word addr 40588
RORD5			-32768..32767		Word addr 40589
RORD6		Value field 3	-32768..32767		Word addr 40590
RORD7			-32768..32767		Word addr 40591
RORD8		Pulse time	-32768..32767		Word addr 40592
RORD9		Disposition field4	-32768..32767		Word addr 40593
RORD10		Disposition field5	-32768..32767		Word addr 40594
RORD11		Disposition field6	-32768..32767		Word addr 40595
RORD12		Value field 4	-32768..32767		Word addr 40596
RORD13			-32768..32767		Word addr 40597
RORD14		Value field 5	-32768..32767		Word addr 40598
I4ORD2 HI			-32768..32767		Word addr 40599
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40600

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### Read MasterFieldbus – Modbus TCP converter PE1354FB

#### MFB Node 15 Signal list MasterFieldBus – Modbus TCP

MP200 MFB Bus	MFB DSDI/DSDX	MFB DCU30	Value	Logged data to ModbusTCP	Modbus TCP data
				→	
PBIND1	Base DI 25-32	Pushbutton 1-16	-32768..32767	Data from TYRAK to TCP IP	Word addr 40601
PBIND2	Base DI 17-24		-32768..32767		Word addr 40602
PBIND3	Base DI 9-16		-32768..32767		Word addr 40603
PBIND4	Base DI 1-8		-32768..32767		Word addr 40604
PBIND5	Exp DI 25-32		-32768..32767		Word addr 40605
I4IND1 HI	Exp DI 17-24		-32768..32767		Word addr 40606
I4IND1 LO	Exp DI 9-16		-32768..32767		Word addr 40607
RIND1	Exp DI 1-8		-32768..32767		Word addr 40608
RIND2			-32768..32767		Word addr 40609
RIND3	Only low byte is used for value. High byte is is Status bit for signal.		-32768..32767		Word addr 40610
RIND4			-32768..32767		Word addr 40611
RIND5			-32768..32767		Word addr 40612
RIND6			-32768..32767		Word addr 40613
RIND7			-32768..32767		Word addr 40614
RIND8			-32768..32767		Word addr 40615
RIND9			-32768..32767		Word addr 40616
SPARE			-32768..32767		Word addr 40617
SPARE			-32768..32767		Word addr 40618
SPARE			-32768..32767		Word addr 40619
NOT USED			-32768..32767		Word addr 40620
PBORD1		General param	-32768..32767	Data from MP200 to TCP IP	Word addr 40621
PBORD2	Base DO 21-32	Indications	-32768..32767		Word addr 40622
I4ORD1 HI	Exp DO 21-32	Disposition field1	-32768..32767		Word addr 40623
I4ORD1 LO		Disposition field2	-32768..32767		Word addr 40624
RORD1		Disposition field3	-32768..32767		Word addr 40625
RORD2		Value field 1	-32768..32767		Word addr 40626
RORD3			-32768..32767		Word addr 40627
RORD4		Value field 2	-32768..32767		Word addr 40628
RORD5			-32768..32767		Word addr 40629
RORD6		Value field 3	-32768..32767		Word addr 40630
RORD7			-32768..32767		Word addr 40631
RORD8		Pulse time	-32768..32767		Word addr 40632
RORD9		Disposition field4	-32768..32767		Word addr 40633
RORD10		Disposition field5	-32768..32767		Word addr 40634
RORD11		Disposition field6	-32768..32767		Word addr 40635
RORD12		Value field 4	-32768..32767		Word addr 40636
RORD13			-32768..32767		Word addr 40637
RORD14		Value field 5	-32768..32767		Word addr 40638
I4ORD2 HI			-32768..32767		Word addr 40639
I4ORD2 LO		Value field 6	-32768..32767		Word addr 40640

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MFB Node 0-15 Status**

Node Status	Value	From PE1364FB	Modbus TCP data
		→	This is the Default addr Can be changed from Service program.
MFB node 0			Word addr 40641 High byte
MFB node 1			Low byte
MFB node 2	Bit 0=1		Word addr 40642 High byte
MFB node 3	Active slave on line		Low byte
MFB node 4			Word addr 40643 High byte
MFB node 5	Bit 1=1		Low byte
MFB node 6	Data from MP200 saved		Word addr 40644 High byte
MFB node 7			Low byte
MFB node 8	Bit 2=1		Word addr 40645 High byte
MFB node 9	Data from Slave (TYRAK)		Low byte
MFB node 10	Saved		Word addr 40646 High byte
MFB node 11			Low byte
MFB node 12	B7= SYNCH INPUT		Word addr 40647 High byte
MFB node 13	Display value of RS232		Low byte
MFB node 14	RX signal.		Word addr 40648 High byte
MFB node 15	(Only used in MFB node 0) See below.		Low byte
<b>MFB Com errors</b>			
MFB node 0	Init messages from MP200		Word addr 40649 High byte
MFB node 1	Called SNRM messages		Low byte
MFB node 2			Word addr 40650 High byte
MFB node 3	DL VIEW :		Low byte
MFB node 4	USE calculated signal		Word addr 40651 High byte
MFB node 5	function to split 16 bit		Low byte
MFB node 6	Integer to 2 one byte		Word addr 40652 High byte
MFB node 7	counters		Low byte
MFB node 8			Word addr 40653 High byte
MFB node 9			Low byte
MFB node 10			Word addr 40654 High byte
MFB node 11			Low byte
MFB node 12			Word addr 40655 High byte
MFB node 13			Low byte
MFB node 14			Word addr 40656 High byte
MFB node 15			Low byte
<b>MFB Init response from Slave node</b>			
MFB node 0	Initresponses from Slave		Word addr 40657 High byte
MFB node 1	Called USER ACK		Low byte
MFB node 2	messages		Word addr 40658 High byte
MFB node 3			Low byte
MFB node 4	DL VIEW :		Word addr 40659 High byte
MFB node 5	USE calculated signal		Low byte
MFB node 6	function to split 16 bit		Word addr 40660 High byte
MFB node 7	Integer to 2 one byte		Low byte
MFB node 8	counters		Word addr 40661 High byte
MFB node 9			Low byte
MFB node 10			Word addr 40662 High byte
MFB node 11			Low byte
MFB node 12			Word addr 40663 High byte
MFB node 13			Low byte
MFB node 14			Word addr 40664 High byte
MFB node 15			Low byte

**SYNCH INPUT Signal.**

From ModbusTCP it is possible to Read status on RS232 RX (PIN 3).  
 SYNCH INPUT signal max 12V and min -12V.  
 0V INPUT on PIN 5 in the RS232 connector  
 Signal goes from 0 to 1 approx at input level of +1,4V.

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

Signal can be read at 40641 bit number 15 (Highest bit in the word)

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**Read MasterFieldbus – Modbus TCP converter PE1354FB**

**MasterField Bus – Modbus TCP mapping if Active Slave**

MP200 MFB Bus	Value	data from ModbusTCP	Modbus TCP data
		←	
PBIND1	-32768..32767	Data from TCP IP to MFB	Word addr 41025
PBIND2	-32768..32767		Word addr 41026
PBIND3	-32768..32767		Word addr 41027
PBIND4	-32768..32767		Word addr 41028
PBIND5	-32768..32767		Word addr 41029
I4IND1 HI	-32768..32767		Word addr 41030
I4IND1 LO	-32768..32767		Word addr 41031
RIND1	-32768..32767		Word addr 41032
RIND2	-32768..32767		Word addr 41033
RIND3	-32768..32767		Word addr 41034
RIND4	-32768..32767		Word addr 41035
RIND5	-32768..32767		Word addr 41036
RIND6	-32768..32767		Word addr 41037
RIND7	-32768..32767		Word addr 41038
RIND8	-32768..32767		Word addr 41039
RIND9	-32768..32767		Word addr 41040
SPARE	-32768..32767		Word addr 41041
SPARE	-32768..32767		Word addr 41042
SYNCH OUT	-32768..32767	See below	Word addr 41043

**SYNCH OUT Signal.**

From ModbusTCP it is possible to SET or RESET the TX output in the RS232 connector (PIN 2)  
 Set the SYNCH OUT (Word addr 41043) to 0 then RS232 TX signal goes to -8V.  
 Set the SYNCH OUT (Word addr 41043) to any value except 0 then RS232 TX signal goes to +8V.

**3. Firmware versions**

**Ver4 2010-04-10**

Possible to set IP address from Service program.  
 Address for Status indication can be selected from the service program.

**Ver3 2008-12-01**

Buffert memory moved from Anybus module to Static RWM on Main board.  
 RS232 Synchronisation signals IN and OUT added. Possible to Read the SYNCH INPUT on ModbusTCP and possible to SET and Reset the Synch output Signal from ModbusTCP.  
 DIP Switch number 8 is used to select Service program or the Synch signal.  
 Master fieldbus High and low speed can not be selected. PE1354FB works on High speed only.

**Ver2 2007-08-18**

Counters for MasterFieldbus status message SNRM( Initiation ), UACK (User acknowledge and RNR (Receiver not ready) added.